

SUBSTITUTE ABSTRACT OF THE DISCLOSURE

A method for reducing the amount of wastewater treatment station sludge first performs wastewater purification with fixed biological cultures from which excess sludge is extracted intermittently during phases of washing and unclogging. Then, the water from the washing phase that provides fixed biological cultures is subjected to biological activated sludge treatment, the outlet of this stage does not recycle effluent to the front end of the water treatment line. The wastewater is then subjected to a stage of reduced sludge production (RPB), selectively, by thermophilic enzymatic action or by partial oxidation by ozone introduced by mechanical stirring, this stage being supplied by quantities of sludge from the step of biological treatment by activated sludge, the substrate source for the bacteria of the biological treatment including organic material derived from lysed bacterial cells induced during the RSP stage.